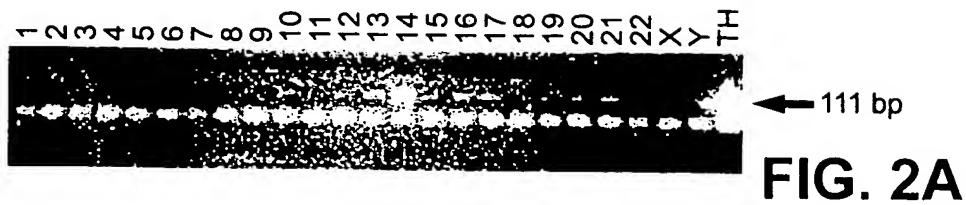


BAZ SWPFLKLVSSKIQ--VPDYYDI~~I~~~~K~~~~P~~IALNIIREKVN~~K~~KLASEFIDDIELMSNCFEYN
TFIID SWPFLKPVNKKQ--VKDYYT~~V~~~~I~~~~K~~~~R~~PMDELTIGKNIEAHRYH~~SRAEY~~~~L~~ADI~~E~~LIAT~~N~~CQYN
CCG1 TYPFHTPVNAKV--VKDYYKII~~T~~~~R~~PMDLQT~~L~~RENV~~R~~KLYPSREEFREHLELIVNSATYN
PCAF AWP~~F~~MEPVKRTE--APGYYEVIRSPMDLKTM~~S~~ERLKMRYYVS~~K~~KLFMADI~~Q~~RVFTNCKEYN
CBP SLPFRQPVDPQLLG~~I~~PDYFDIVKNPMDLSTIKRKL~~D~~TGQYQE~~P~~WQY~~V~~DDVWL~~M~~ENNAWLYN

FIG. 1A

* * CKIC-----RKKGDAEN--MVLC~~D~~GCDRGHHTYCV--RP~~K~~LKT~~V~~PEGD-WFCPEC
U13646 CQIC-----KSMDGDE--MLVCDGCESGCHMECF--RPRMTK~~V~~PEGD-WFCQRC
RBBP2 CMFCG-----RGNNEDK--LLLCDG~~C~~DDSYHTFCL--I~~P~~PLPDV~~P~~KGD-WRCPKC
MOZ. 1 CSFCLG-----TKEONREKKPEELISCADCGNSGHPSCL~~K~~FSPELT~~V~~RVK~~A~~LRWQCIEC
MOZ. 2 CSSRD-----QGKNADN--MLFCDS~~C~~DRGFHMECC--D~~P~~PLTRMPKG~~M~~-WI~~C~~QIC
P300 CEKCFNEIQGESVSLGDDPSQPQTTINKEQESKR~~K~~NDTLDPELFVECTECGRKMHQICV--LHHEII~~I~~W~~P~~AG--FVC~~D~~GC
CBP CEKCFCTEIQGENVT~~L~~GDDPSQPQTTISKDQFEKKNDTLDPEPFVDC~~K~~NDTLDPEP~~F~~VDC~~N~~C

FIG. 1B



Position Distance
(cRays)

| | |
|---------|------|
| D14S835 | 8.8 |
| D14S725 | 18.9 |
| D14S730 | 5.6 |
| BAZ | 8.9 |
| D14S75 | 12.1 |
| D14S728 | 10.1 |
| D14S872 | |

Chr 14

FIG. 2B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

**FIG. 3**

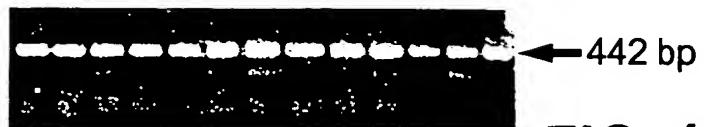
1 2 3 4 5 6 7 8

**FIG. 4A**

1 2 3 4 5 6 7 8 9 10 L T G



→ 554 bp

**FIG. 4B**

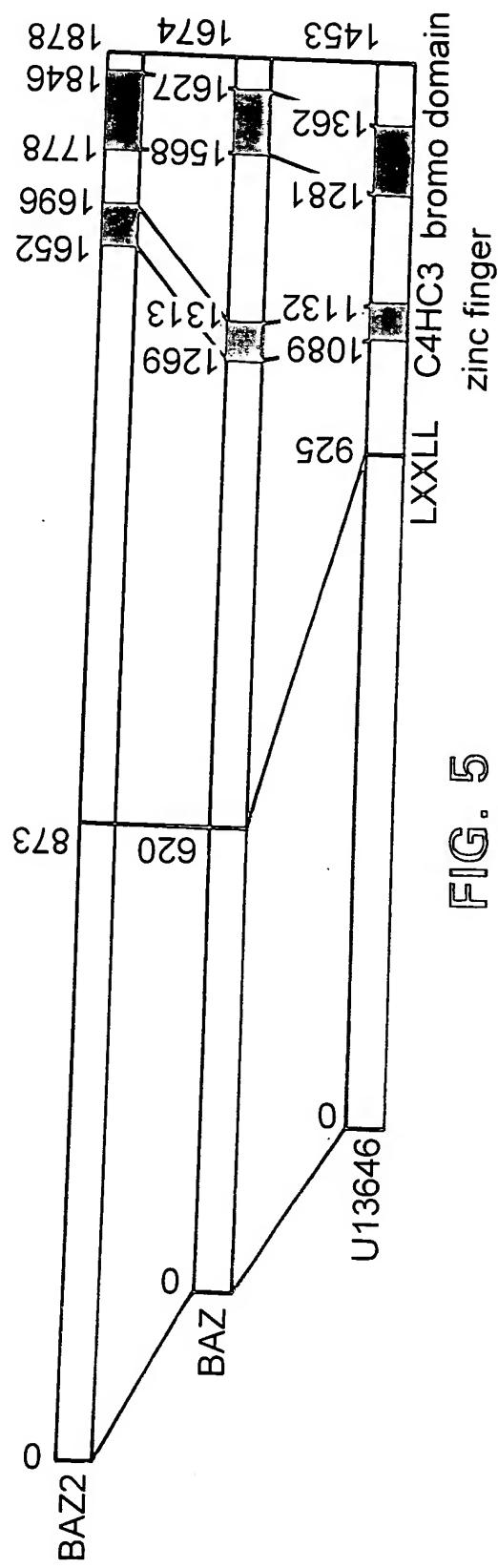


FIG. 5

bromodomains

| | | |
|--------|--|---|
| BAZ | SWPFLKLVS KI QV--PDYYDIKKPIALNIIREK-- | --VNKECEYKLASEFIDDLIELMFSNCFEYN |
| CCG | SWPFHH P VNKKFV--PDYYKVIVNPMDLETIRKN-- | --ISKHKYQSRESFLLDDVNLLIANSVKYN |
| BAZ2 | AWP F LEPVNPRLV--SGYRRIIKNPMD F STM R ER-- | --LLRG G YTSSSEEFAADALLYFDNCQTN |
| PCAF | AWP F MEPVVKRTEA--PGYYEVIRSPMDLKTM S ER-- | --LKNRYYVS K KL F MADLQLQRVF T NCKEYN |
| U13646 | ALPF F LEPVNP K LV--PGYKMIISKPM D LKT I ROKNEKLIVSETYQFCFFAIFDLKLKM K ITQYETPEDF A E D IELMFANCRQFN | --SLPFRQPVD P OLLGIPD Y FDIVKNPMD L STIKRK-- |
| CBP | | --LDTGQYQEPWQYVDDWLMFNNAWLYN |

C4Hg3 Zn finger

| | | |
|--------|---|---|
| BAZ | CKIC-- | RKKGDAEN---MVLCDGCCDRGHHTYCV--RPLKLKTVPEGD-WFCPEC |
| U13646 | CQIC-- | KSMGDGE---MLVCDGCESGCHMECF--RPRMTTKVPEGD-WFCQRC |
| RBBP2 | CMFCG- | RGNNEDK---LLLCDGDDSYHTFCL--IPIPPLPDVKGD-WRCPKC |
| MOZ.1 | CSFCLG- | TKEQNREKPEE---LISCADCGNSGHPSCLKFSPELTVRVKA _L RWQCIEC |
| MOZ.2 | CSSCRD-- | QGKNADN---MLFCDSCDRGFFHMECC--DPPLTRMPKGW-WICQIC |
| p300 | CEKCFNEIQGESVSLGDDPSQQTITINKEQSFRKNDTLDPELFVECTECGRKMHQICVL--HHEIIM _P AG--FVCDGC | |
| BAZZ | CLVC-- | RKGDDNDE--FLLCDGCDRGCHIYCH--RPKMEAVPEGD-WFCTVC |

FIG. 6A

6GB
EIGI

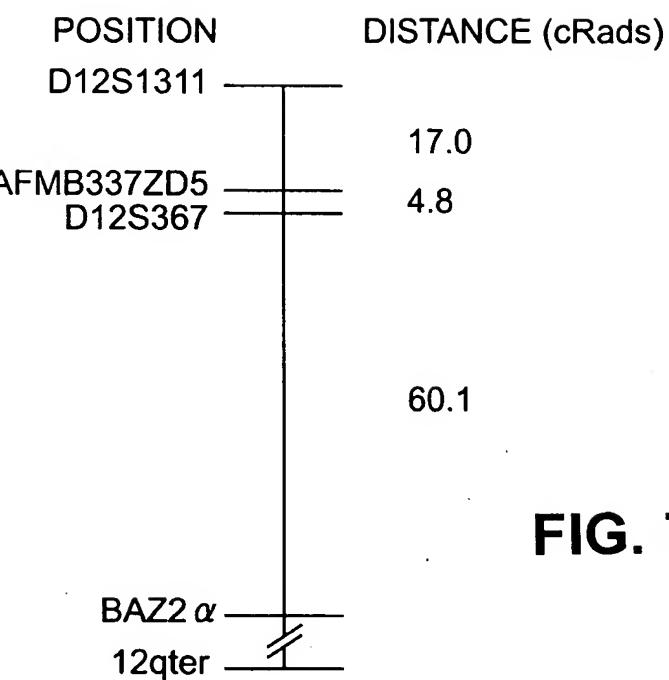
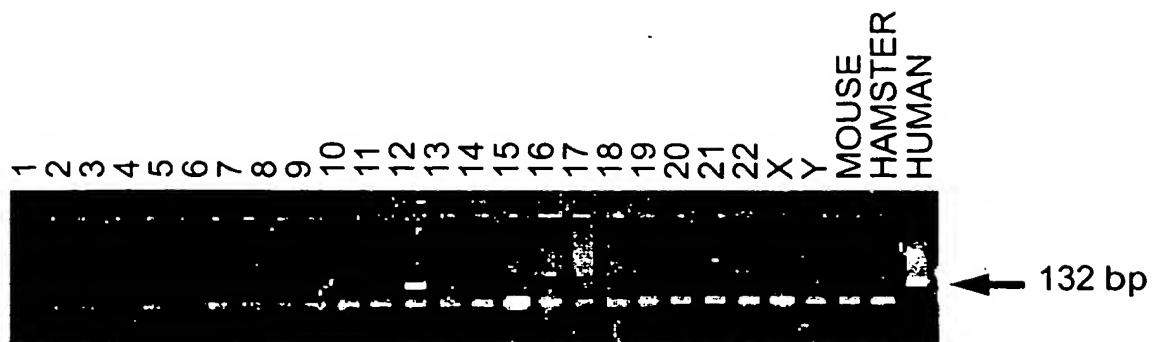


FIG. 7

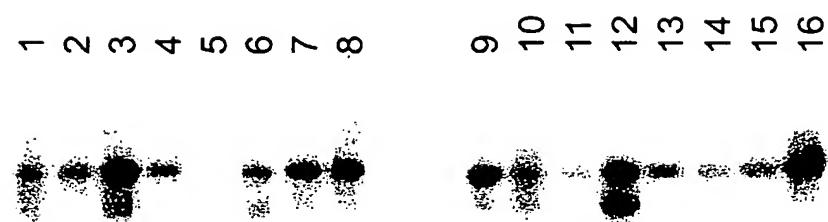


FIG. 8A



FIG. 8B

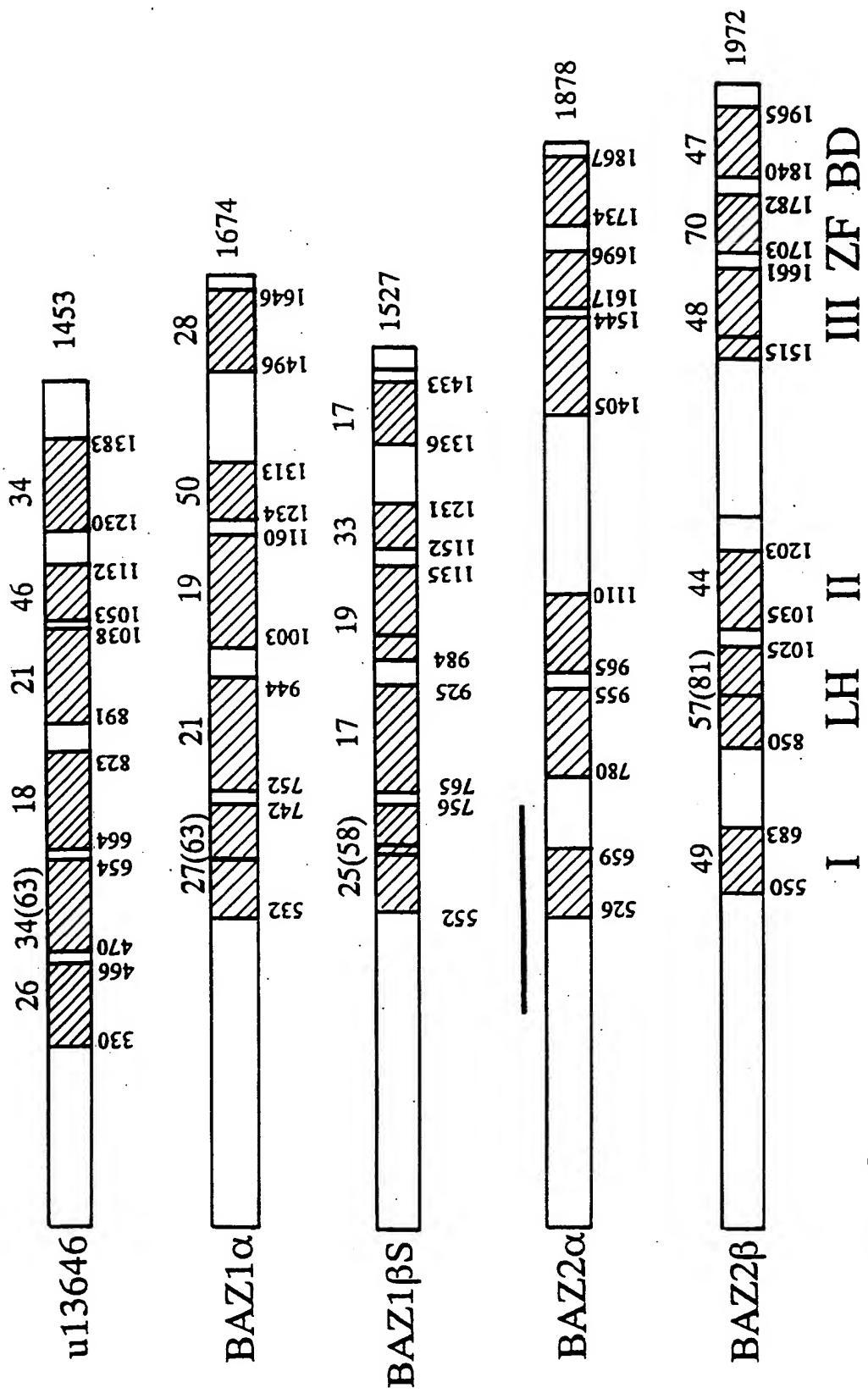


FIG. 9

| | | |
|--------|---|---|
| baz1α | 1 | REEKKYVEYLQWSKPREMEC. |
| u13646 | 1 | LNDEFTEELVHSQIMSNGVDE. CKIREREADLLVNINDVRHLPDFSRIGNQC <u>LS</u> SQGFA <u>_</u> |
| baz2α | 1 | LEERQKQQMILEEMRKPTEDM.C. |
| bazzβ | 1 | LEQRRILEMAMEAKLKKPNEDM.C. |

| | |
|--------|--|
| baz1α | 46 DALMV <u>L</u> EFLNA <u>G</u> FEL . FDL <u>Q</u> DEFPDGV <u>T</u> LEV <u>E</u> ALV <u>G</u> N . DSE <u>G</u> H <u>L</u> C <u>E</u> LL <u>F</u> FLTA <u>I</u> EQ |
| u13646 | 60 DALMV <u>H</u> E <u>F</u> V <u>Q</u> N <u>F</u> G <u>H</u> V <u>L</u> G <u>I</u> D <u>L</u> E <u>I</u> . APK . . LESL <u>C</u> AG <u>L</u> D <u>G</u> DAN <u>H</u> A <u>E</u> QT <u>L</u> QL <u>T</u> R <u>Q</u> L <u>R</u> L <u>A</u> LE |
| bazz2α | 47 DC <u>L</u> T <u>I</u> V <u>E</u> FL <u>H</u> S <u>F</u> G <u>K</u> V <u>L</u> G <u>F</u> D <u>P</u> A <u>K</u> D <u>V</u> P <u>S</u> . . LGVL <u>Q</u> E <u>G</u> LL <u>C</u> Q <u>G</u> D <u>S</u> L <u>G</u> E <u>V</u> Q <u>D</u> L <u>L</u> V <u>R</u> L <u>L</u> K <u>A</u> ALH |
| bazz2β | 47 DC <u>L</u> M <u>V</u> V <u>Q</u> FLRN <u>F</u> G <u>K</u> V <u>L</u> G <u>F</u> D <u>V</u> N <u>I</u> D <u>V</u> P <u>N</u> . . LSVL <u>Q</u> E <u>G</u> LL <u>N</u> I <u>G</u> D <u>S</u> M <u>G</u> E <u>V</u> Q <u>D</u> L <u>L</u> V <u>R</u> L <u>L</u> S <u>A</u> AVC |

| | | |
|--------|-----|---|
| baz1α | 103 | AIAEEEEVAKKEQLTDADTKGCSLKSLDLSCTLSEILRLHILASGADVTSANAKYRYQK |
| u13646 | 116 | FPGM...GNEKRF...GOGGDEMGLDRENFSEVMRFLFLIDKGKR..... |
| baz2α | 104 | DPGFPSPSYCQSILKIL...GEKVSEIPLTRDNVSEILRCFLMAYGVE... |
| baz2β | 104 | DPGLITGYKAKTAL...GEHLLNVGVNRDNVSEILQIFMEAHCGQ... |

| | | |
|--------|-----|--|
| baz1α | 163 | RGGFDATDDACMELRLSNP <u>SLVKKLSSSTS</u> <u>VYDLTPGEKMKI</u> <u>LHALCGKL</u> |
| u13646 | 154 | <u>GEELSQPLLT</u> <u>CNFLLSISPEQKAS</u> <u>SILAFLCDEL</u> |
| baz2α | 146 | <u>PALCDRLRT</u> <u>QPFQAQQPPQQKA</u> <u>AVLAFPVHEL</u> |
| baz2β | 146 | <u>TELTESLKT</u> <u>KAFQAHTPAQKAS</u> <u>SVLAFLINEL</u> |

FIG. 10

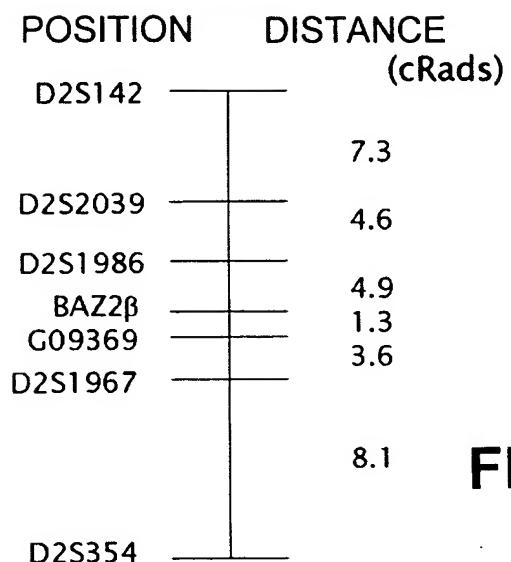
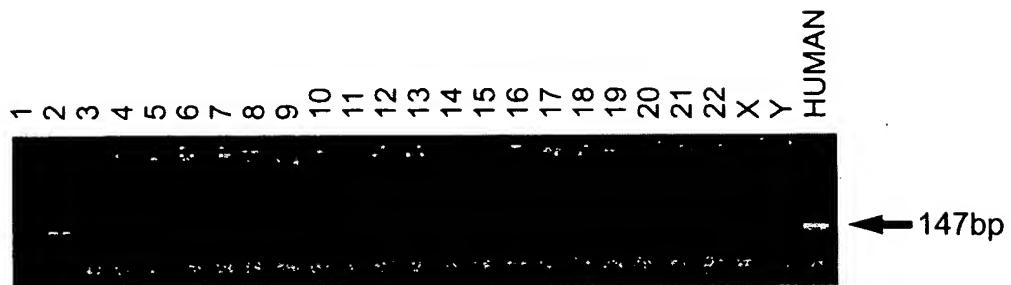


FIG. 11

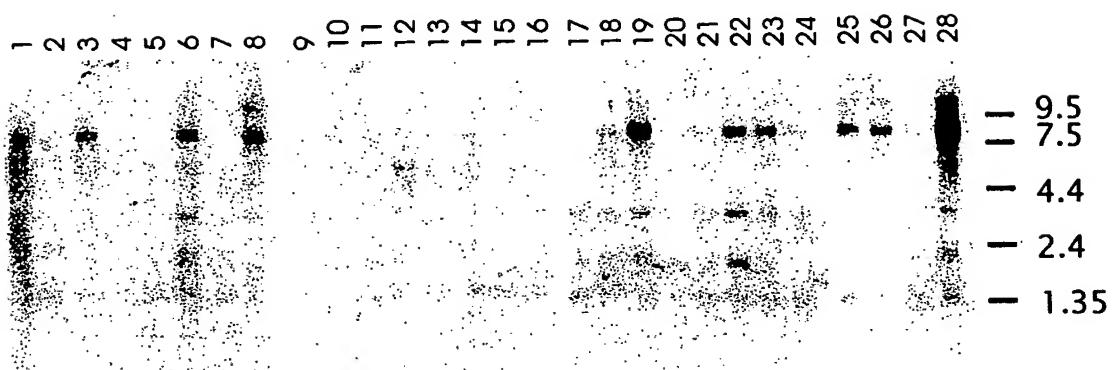


FIG. 12

| | | | | | | |
|----------------|-----------------------------------|-------|----------------------------------|-----|-----|-----|
| BAZ1 β S | 639 | 649 | 659 | 669 | 679 | 689 |
| | YPITAVSLMEALSADKGGFLYLNRVLVIL | ----- | LQTLLQDEIAEDYGELGMKLSEIPLTLHSVSE | | | |
| BAZ1 β L | 630 | 640 | 650 | 660 | 670 | 680 |
| | YPITAVSLMEALSADKGGFLYLNRVLVILLQTL | ----- | LQTLQDEIAEDYGELGMKLSEIPLTLHSVSE | | | |

FIG. 13

BAZ1Bs 1
BAZ1A 1
BAZ2A 1 MEMEANEANDHFNFTGL
BAZ2B 1

BAZ1Bs 1
BAZ1A 1
BAZ2A 18 PPAPAASGLKPSPSSGEG. LYTNGSPMNF PQQGKSLNGDVNVNGLS
BAZ2B 1 MGQTKSTSSGGNRKCNQEQSKNQPLDARVDKIKDKKPRK. KAMESSSNSDSS

BAZ1Bs 1
BAZ1A 1
BAZ2A 63 . TVSHTTTSGILNSAPHSSSTSHLHHPSVAYDCLWNYSQYPSANPGSNLKDPPLSQFSG
BAZ2B 54 GTSSDTSSEGI. SSSDDLEEDEEEDQSIEESEDDDSDSESEAQHK. SN

BAZ1Bs 1
BAZ1A 1
BAZ2A 122 GQYPLNGILGGSRQSPSSPSHNTNLRAGSQKFWANGTHSPMLNFDSQELYDSFPDQNFE.
BAZ2B 103 NQVLLHGI. SDPKADGQKATEKAQEKRI. HQPLPLAFESQT. HSFQSOQKOP

BAZ1Bs 1
BAZ1A 1 MEDASESSRGVAVPLINVVLPGSPLSLPVSTGCKSHRVVANKKVEARSEKLLPTALPPSE
BAZ2A 181 EVCSGIHP. DEAAEKEMTSVAENGTGLVCSLE. LEEEQPELKMCGYNGS
BAZ2B 152 QVLSQQLPFIFQSSQAKESVNKHTSVI. QSTGLVSNVKPLSLVNQAKKETYM.

BAZ1Bs 1
BAZ1A 61 PKDQKLPRSSERRGGGGTQFPARSRAVAAGEAAARGAAGPERGSPLGRRVSPRCLCSG
BAZ2A 229 VPSVELHQEVSVLVPDPTVSCLDDPSHLPDQLEDTPILSED. SLEPFNSLAEPPVSG
BAZ2B 204 KLIVPSPDVLKAGNK. NTSEESSLLTSELRSKREQYKQAFP.

BAZ1Bs 1 MAPLLGRKPFPLVNPLPGEEPF. FTIPHT
BAZ1A 121 EGGQVAVGVIAGKRGRRGRDGSRRAPGGREMPLLHRKPFVQRKPPADLRPDEEVFYCKVT
BAZ2A 286 GLYGIDDTELMGAEDKLPLEDSPVISALDCPSLNNATAFSSLADDSQTTSIFASP. TSP
BAZ2B 244 SQLKKQESSSKSLK. KVIAALSNPKATSSSP. AHPKQTLENNHPNPFLTN

BAZ1Bs 29 QEAFRTREEYEARLERYSERIWTCKSTGSSQLTHKEAEEEQVAELLKEEFPAWYEKLV
BAZ1A 181 NEIFRHYDFFFERTILCNSLVWSCAVTRGPGLTYQEALESEKKARQNLQS. FP. . . . EPLI
BAZ2A 345 PVLG. ESVLDDNSFDLNNGDAEQEEMETQSSDFPPSLTQPAPDQOSSTIQLHP
BAZ2B 291 ALLGNHQPNGVIQSVIQEAPALTTKMQSKINENIAAAASSTPFSSPV. NLSTSGRRTP

BAZ1Bs 89 LEMVHHNTAS. LEKLVDTAWLIMTKYAVGEECDFEVGKEMLKVKIVKIHPLEKVD
BAZ1A 237 IPVLYLTSLTHRSRLHEICCDIFAYVKDRYFVEETEVIRNNGARLQCTILEVLP.
BAZ2A 397 ATSPAVSPTTSPAVSLVVSPAASPEISPECPAASTVVSPAVFSVV.
BAZ2B 350 GNQTPVMPSASPILH. SQGKEKAVSNNVNPVKTQHHSHPAKSLVEQFRGTSDIPSSK

BAZ1Bs 145 EEATEKKSDGACDSPSSDKENSSQIAQDHQKK...ETVVKEDEGRRESINDRARRSPRKL
BAZ1A 292PS....HQNGFANGHVNSVDGETIIISDSDSETQS.....
BAZ2A 443
BAZ2B 407 DSEDSNEDEEEDEEDEEDDEDDESDDSQSESDSNSESDTEGSEEEDDDDKDQDESDSD

BAZ1Bs 202 PTSLKKGGERKWAPPKFLPHKYDVK.LQNEDKIISNVPADSLIRTERPPNKEIVRYFTRHN
BAZ1A 324 .CSFQNGKKDAIDPLL.FKYKVQPTKKELHESAIVKATQISRRKHLFSRDKLKLFLKQH
BAZ2A 443SPASSAVLPAVSLEVPLTASVTSPKASPVTSPAAFP.TASPANKDVSS
BAZ2B 467 TEGEKTSMKLNKTTSVKSSPSMSLTGHSTPRNLHIAKAPGSAPAALCESQSPA.....

BAZ1Bs 261 ALRA GTGENAPWVVEDELVKYSLPS.....KFSDFLLDPYKYMTLNPSTKRKNTGSPD
BAZ1A 382 C.....EPQEGVIK...IKASSLSTYKIAEQDFSYFFPDDPPTFIFSPANRRR..GRPP
BAZ2A 491 FLETTADVEEITGEGLTASG.SGDVMRRIATPEEVRLPLQHGRWRREVRIKKGSHRWQGE
BAZ2B 521 FLGTSSST.....LTSSPHSGTSKRRRTDERERLIPLEYGWQRETRIRNFGGRLOQGE

BAZ1Bs 315 RKPSKKSKTDNSSLSSPLNPKLWCHVHLKKSLSGSPLKVNSKNSKSPEEHLEEMMKMMS
BAZ1A 431 KRI.HISQEDN.....VANKQTLA.....SYRSKATKER.....
BAZ2A 550 TWYYGPGKRMQFPEVIKYLSRLNVHSVRREHFSFSRMPVGDFFEERDTPEGLOWVQL
BAZ2B 574 VAYYAPCGKKLRQYPEVIKYLSRNGIMDISRDNFSFSAKIRVGDFYEARDGPQEMQWCLL

BAZ1Bs 375 PNKLHTNFHIPKKGPPAKKPGKHSDKPLKAKGRSKGILNGQKSTGNSKSPKKKGLKTPKTK
BAZ1A 459DKLLK.....QEEMKSLAFEKAK
BAZ2A 610 SAAEIPSRIQAITGKRGRPRNTEAKTKEVPKVKRGRGRPPKVKITELLNKTDNRPKKL
BAZ2B 634 KEEDVIPRIRAMEGRGRPPNPDQRRAREESSRMRRKGRPPNVGNAEFLDNADAKLLRKL

BAZ1Bs 435 MKQM^TLLDMAKGTQKMTRAPRNSGGTPRTSSKPHKHLPPAALHLIAYYKENKDREDKRSA
BAZ1A 477 LKR.....EKADALEAKKEKEDKKEKKR..
BAZ2A 670 EAQET.....LNEEDKAKIAKSKKMR.....QKVQRGECLTTIQGQARNKR
BAZ2B 694 QAQEIARQAAQIKLLRKLOQQEQARVAKEAKKKQQMAAEEKRKQKEQIKIMKQQEKKR

BAZ1Bs 495 LSCVISKTARLLSSEDRARLPEERLSVQKRYELLHKKRWASM.....
BAZ1A 500EEELKKKIVEEER.....L.....
BAZ2A 712 KOETKSLKHK.....EAKKKSKAEKEGKT..KQEKLKEK.....VKREKKEVK
BAZ2B 754 IQQIRMEKELRAQQILEAKKKKEEAANAKLEAKRKEKEMRRQQAVLLKQERERR

L L L L L L L

BAZ1Bs 539SEEQRKEYYLKKKREELKKKLKEKAKERREKMLELEKQKR.YEDQEL
BAZ1A 512KKKEEKERLKVEREKERLREE.....KRKYVEYLKQWSKPREMC
BAZ2A 755 M.....KEKEEVTKAKPACKDK.TLATQRLEERQKQMILEEMKKPTEDMC
BAZ2B 814 QHMMLMKAMEARKKAEEKERLKQEKDEK.RLNKERKLEQRRLEMAKELKKPNEDMC

L L L L LL L L LL

BAZ1Bs 586 TG.KNLPAFRLVDTPEGLPNTLFGDVAMVVEFLSCYSGLLPDAQYP..ITAVSLMEAL
BAZ1A 555 DDLKELPEPTPVK..RLPPEIFGDAMVLEFLNAFGELFDLQDEFPDGVTLEVLEALV
BAZ2A 803 TDHQPLPDFSRVPGLT.LPSGAFSDCLTIVEFLHSFGKVLGFDPA.DVPSLGVIQEGL
BAZ2B 873 ADQKPLPELPRIPGLV.LSGSTFSDCLMVVQFLRNFGKVLGFDVNI.DVPNLSVIQEGL

LXXLL L LXXLLLXXLL

BAZ1Bs 642 S.ADKGG.....FLYLNRLVVILLQTLLQDEIAE....DYGELGMKLSEIPLTLHSVSE
BAZ1A 613 G.NDSEGPLCELLFFFLTAIFQAIAEE..EEEVAKEQLTDADTKGCSLKSLDLDSCTLSE
BAZ2A 861 CQGDSLGEVQDL.....LVRLLKAALHDPGFPSYCQSLKILGEKVSEIPLTRDNVSE
BAZ2B 931 NIGDSMGEVQDL.....LVRLLSAAVCDPGLITGYAKTALGEHLLNVGVNRDNVSE

L L

BAZ1Bs 691 LVRLCLRRSDVQEESEGSDTD.....DNKDSAAFEDNEVQDEFFLEKLETSEFFFELTSE
BAZ1A 670 ILRLHILASGADVTSANAKYRYQKRGGFDATDDACMELRSLNSPSVKKLSSTSVYDLTPG
BAZ2A 913 ILRCFLMAYGVE.....PALCDRLRTQPFQAQPPQ
BAZ2B 983 ILQIFMEAHCGQ.....TELTESLKTKAFQAHTPA

L L LL

BAZ1Bs 744 EKLQILTALCHRILMTYSVQD.....HMETRQQOMSAELWKER
BAZ1A 730 EKMKILHALCGKLLTVSTRDFIEDYVDILROAKQEFRELKAEQHRKEREAAARIRKRK
BAZ2A 943 QKAAVLAFPVHELNGSTLINEIDKTLES.....SSYRKNKWIVEGRLRR..
BAZ2B 1013 QKASVLAFLINELACSKSVSEIDKNIDYM.....SNLRRDKWVVEGKLRK..

BAZ1Bs 781 LAVLKEENDKKRAEKQKRKEMEAKNKENGKVENGLGKTDRKKRIVKFEPQVDTEA....E
BAZ1A 790 EEKLKEQEQKMKEKEQKLKEDEQRNS...TADISIGEEEREDFTSIESK.DTEQKELDQ
BAZ2A 989 ...LKTVLAKRTGRSE....VEMGRPEECLG.....RRRSRIM.E.....ETS
BAZ2B 1059 ...LRIIHAKKTGKRDTSGGIDLGEEQHPLGTPTPGRKRRRKGGDS.DYDDDDDDDSDDQ

BAZ1Bs 837 DMI.....SAVKSSRLLAIQAK.KEREIQEREMKV..KLERQAEERIRKHAAAEK
BAZ1A 846 DMFTEDEDDPGSHKRGRRGKRGQNGFKEFTRQEQINCVTRELLTADEEEALKQEHQRKEK
BAZ2A 1025 GMEEEEEEEEISAAVPGRRGR..RDGE.....VDATASSIPELERQIEKLSKQRLF....
BAZ2B 1115 GDEDDEDEEDKEDQKGKTDICED.....EGDQAASVEELEKQIEKLSKQQSQ....

BAZ1Bs 886 AFQEGIAKAKLVMRRTPIGTDRHNRYWLFSDEVPGLFIEK...GWV.HDSIDYRFNHHC
BAZ1A 906 EELLEKIQSAIACTNIFPLGRDRMYRRWIFPS.IPGLFIEEDYSGLT.EDMLLPRPSSF.
BAZ2A 1073 .FRKKLLHSQSMLRAVSLGQDRYRRRYWVLPY.LAGIFVEGTEGNLVPEEVIKETDSLK
BAZ2B 1165 .YRRKLFDASHSLRSVMFGPDRYRRRYWILPR.CGGIFVEGMESGEGLEE.IAKEREKLK

LXXLL

BAZ1Bs 942 KDHTVSGDEDYCPRSKKANLGKNASMNTQHGTATE.....
BAZ1A 963 QNNVQSQDPQVSTKTGEPLMSESTS.NIDQGPRDH.....
BAZ2A 1131 VAAHASLNPAFSMKMELAGSNTTASSPARARSRP.LKTKPG...FMO.PRHFKSPVRGQ
BAZ2B 1222 KAESVQIKEEMF....ETSGDSLNCNTDHCEQKEDLKEDNTNLFLQKPGSFSKLSKLL

BAZ1Bs 977
BAZ1A 997
BAZ2A 1186 DSEQPQAOLOQPEAQLHVPAQPQPOLQLOLQSHKGFLEQEGSPPLSLGQSQHDLSQSAFLSW
BAZ2B 1278 EV....AKMPPESEVMTP.KPNAGANGCTLSY....QNSGKHSLGSVQSTATQSN....

BAZ1Bs 977
BAZ1A 997
BAZ2A 1246 LSQTQSHSSLSSVLPDSSPGKL.DPAPSQPPEEPEPDEAESSPDQLQAFWFNISAQMP
BAZ2B 1324 VEKADSNNLFNTG....SGPGKFYSPLPDQLLLKTLTEKNRQ....WFSLPRTP

BAZ1Bs 977
BAZ1A 997
BAZ2A 1305 CNAAP TPPLAVSEDQP TPSPOQLASSKPMNRPSAANPC . . . SPVQFSS.
BAZ2B 1372 CDDTSLTHADMSTASLVTPQSQQPSKSPSPTPAPLGSS . . AQN P V G L N P F A L S P L Q V K G G

BAZ1Bs 977
BAZ1A 997
BAZ2A 1350 TPLAGLAPKRRAGDPG EMPQSP TGLGQPKRRGRPPSKFFKQME QRYLTQ
BAZ2B 1430 VSMMGL . . . QFCGWPTGVVTSNIPFTLSVPSLGSGLSEGNG NSFLTS

LXXXL
BAZ1Bs 977 VAVETTPKQGQNLWFLCDSQKELDELL
BAZ1A 997 SVQLPKPVHKPNRWC FYSSCEQLDQLI
BAZ2A 1399 LTA QPVPEMCSGWWWIPDPEMLDAML
BAZ2B 1476 NVASSKSESPVPQNEKATSAQPAAVEAKPVDFPSPKPIPEEMQFGWWRIIDPEDLKALL

BAZ1Bs 1005 NCLHPQGIRESQLKERLEKRYQDIIHSI HLARKPNLGLKS
BAZ1A 1024 EALNSRGHRESALKETLLQEKSRICAQALARFSEEKFHFSDKPQPDSDKPTYSRGRSSNAYD
BAZ2A 1426 KALHPRGIREKALHKHLNK HRDFLQEVCRLPS ADPIF
BAZ2B 1536 KVHLRGIREKALQKQIOK HLDYITQACLKKNK DVAAII

BAZ1Bs 1045 . . . CDGNQELLNFLRSDLIEVATRLQKGGLYVEETSEFEARVISLEKLKDGFECVIAL
BAZ1A 1084 PSQMCAEKOLELR . LRDPLL DIEDRIYQGTLGAIKVTDRIWR
BAZ2A 1463 EPRQLPAFQ . . . EGIMSW . SPKEKTYETDLAVLQWVEELEQRVIMS DLIQIRGWTCPSPD
BAZ2B 1573 ELNENEENQVTRDIVENW . . SVEEQAMEMDLSVLQVEDLERRVASASLQVKGWMCPPEPA

BAZ1Bs 1101 QASVIKKFLQGFMAPKOKRR . . . KLOSEDSAKTEEVDEEKKMVEEAKV
BAZ1A 1126 . . SALESGRYELLSEENKENGIIKTVNED . VEEME IDEQTKVIVKDRLLGIKTETPSTVS
BAZ2A 1518 ST REDLAYCEHLSDSQ . . . EDITWRGPGREGL . APORKTTNPLDNMLAVMRLAA
BAZ2B 1631 SE REDLVYFEHKSFTKLCHEHDGEFTGEDESSAHALERKSDNPLDI AVTRLAD

BAZ1Bs 1146 ASALEKWKTAIREAQ
BAZ1A 1183 TNASTPQSVSSVVHYLAMALFQIEQGIERRFLKAPLDASDSGRSYKTVLDRWRESLLSSA
BAZ2A 1566 LEQNVKRRYLREPLWPTHEVVLKALLSTPNGAPEGTTIEISYEITPRIRIWQTLQRCR
BAZ2B 1684 LERN IERR IEEDIAPGLRVWRRALEEAR

C C C C H C
BAZ1Bs 1161 TFSRMHVLLGMILDACIKWDMSAENARCKVCPKGEDDKLILCDECNKAFHLFCLRPALYE
BAZ1A 1243 SLSQVFLHLSTLDRSVIWSKSI LNARCKICRKKGDAENMVLCDGCDRGHHTYCVRPKLKT
BAZ2A 1626 SAAHVCLCLGHLERSIAWEKS VNKVTCLVCRKGDNDE FILLCDGCDRGCHIYCHRPKMEA
BAZ2B 1712 SAAQVALCIQQLQKSI AWEKSIMKVYCQICRKGDNEELL LCDGCDKGCHTYCHRPKITT

C C
BAZ1Bs 1221 VPDGEWQCPACQPAT . ARRNS . RGRNYTE . ESASEDS . . EDDESDEEEEEEEEEE ..
BAZ1A 1303 VPEGDWFCPECRPKQRCRRLSFRQRPSLESDEDVEDSMGGEDDEVGD EEEEGQSEEEYE
BAZ2A 1686 VPEGDWFCVC
BAZ2B 1772 IPDGDWFCPAC

BAZ1Bs1273 EDYEVAGLRLR PRKTIRGKHSVIPPAAARSGRRPGKKPHSTRRSQP
BAZ1A 1363 VEQDEDDSQEEEEVSLPKRGRPQVRVPKT. RGKLSSSFSSRGQQQEPGRYPSRSQQSTP
BAZ2A 1697 LAQ QVEGEFT QKPGFPKRGQK
BAZ2B 1783 IAKASGQTLKIKLHVKG KKTNESKKGKK

BAZ1Bs1318 K APPVDDAEVDELVLQTK
BAZ1A 1422 KTTVSSKTGRSLRKINSAPPT... ETKSRIASRSTRHSHGPLQADVVELSPRRKRG
BAZ2A 1718 RKSGYSLNFSEGDGR
BAZ2B 1812 VTLTGDTEDEDSASTSSLKRGNKDLQK

BAZ1Bs1336
BAZ1A 1479 RKSANNTPENS PNFPNFRVIATKSSEQSRSVNIASKLSLQESESKRRCRKRQSPEPSPV
BAZ2A 1734 RRVLLKGRESPAAGPRYSEERLSPSKRRRLSMRNHHS
BAZ2B 1840 RKM EENTSINLSKQESFTSVKKPK... RDDSK

Bromodomain motif

BAZ1Bs1336 ... RSSRQ... LELOKCEEILHKIVKYRFSWPFREPVTRDEADYYDVITHPMDFQTVQ
BAZ1A 1539 LGRRSSGRQGGVHELSAFEQLVVELVRHDDSWPFLKLVSKIQVPDYYDIIKKPIALNIIR
BAZ2A 1771 DLTFCEIILMMEMESHDAAWPFLEPVNPRLVSGYRRIKNPMDFSTMR
BAZ2B 1869 DLALCSMILTEMETHEDAWPFLLPVNLKVPGYKVKIKKPMDFSTIR

LXXX

BAZ1Bs1391 NKCSCGSYRSVQEFLTDMKVQVFTNAEVYNCRGSHVLSCMVKTE QCLVVL
BAZ1A 1599 EKVNKCEYKLASEFIDDIELMFSNCFEYNPRNTSEAKAGTRLQAFEH IQAQKLG
BAZ2A 1818 ERLLRGGYTSSEEFAADALLVFDNCQTFNEDDSEVGKAGHIMRRFFSRWEEYQGKQAN
BAZ2B 1916 EKLSSGQYPNLETFALDVRLVFDNCETFNEDDSDIGRAGHNMRKYFEKKWTDTFKVS...

L

BAZ1Bs1440 LH..... KHLPGHPYVRRKKKFPDRLAEDEGDSEPEAVGQSRDEDRRSREAEIQEWLQ
BAZ1A 1653 LHVTPSNVDQVSTPPAAAKKSRI.....
BAZ2A 1878 L
BAZ2B 1973

BAZ1Bs1494 DTSLYSAKINSKDHNCFMMLVNTQFCMALTDVT
BAZ1A 1675
BAZ2A 1879
BAZ2B 1973

FIG. 18



FIG. 19A

Position Distance
(cRads)

| | |
|--------------|------|
| D7S1776 | 10.2 |
| D7S653 | 8.9 |
| D7S489 | 7.2 |
| BAZ1 β | 16.0 |
| D7S669 | 11.3 |
| D7S675 | 7.6 |
| AFM312XB5 | |

FIG. 19B

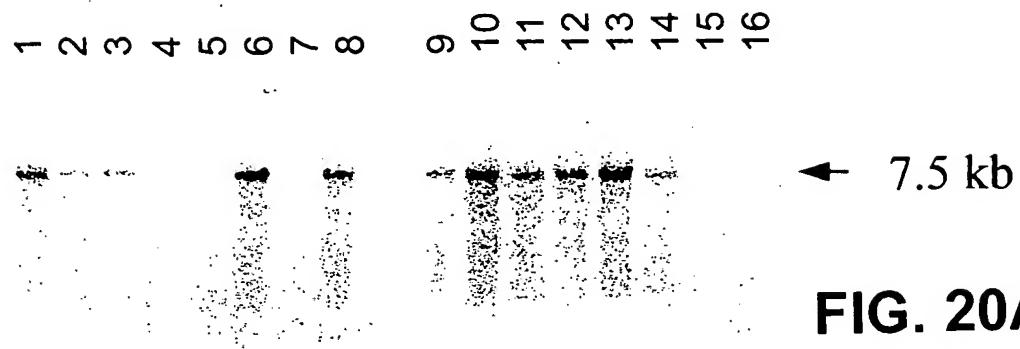
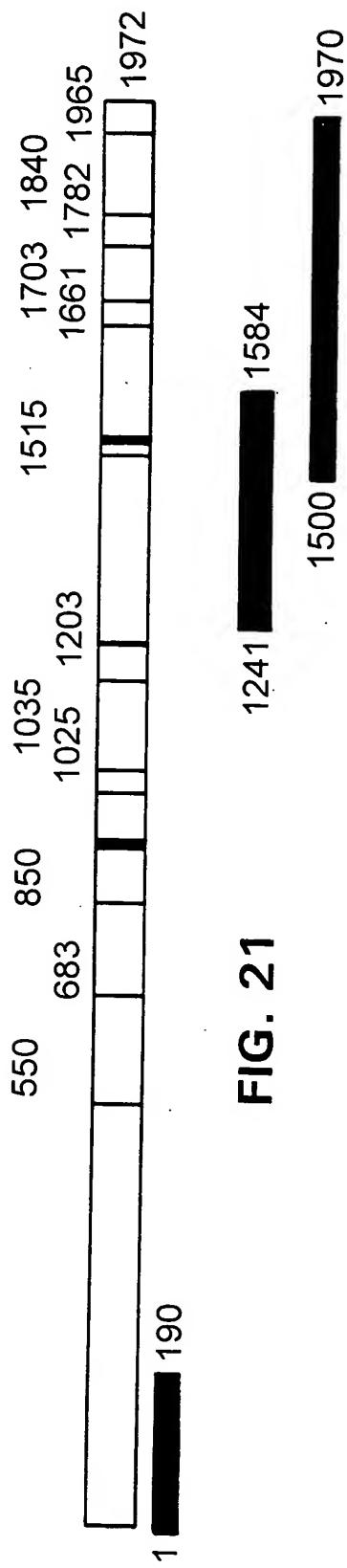


FIG. 20A



FIG. 20B



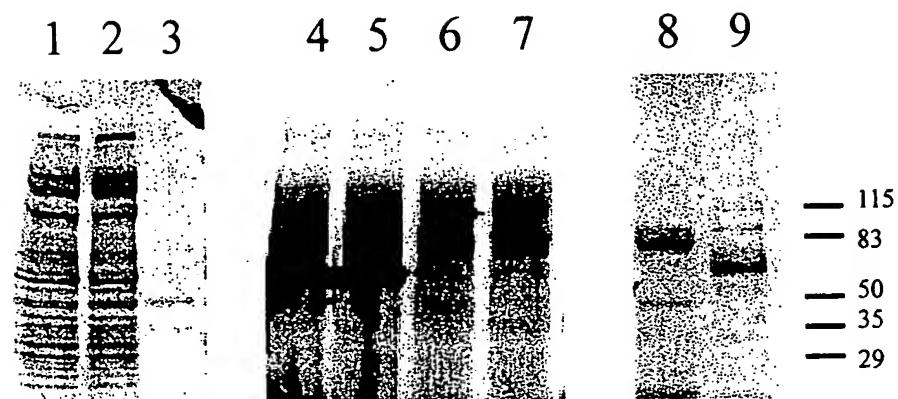


FIG. 22

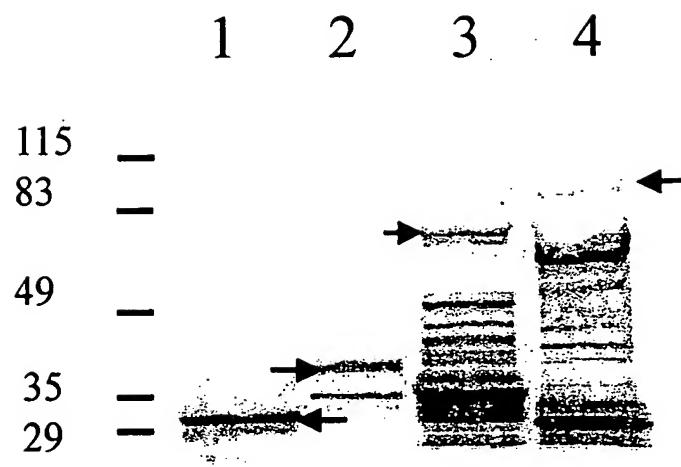


FIG. 23